

Fig. 4A

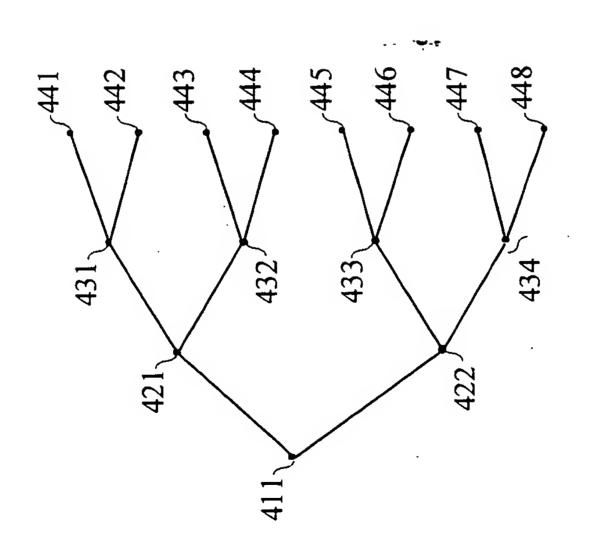
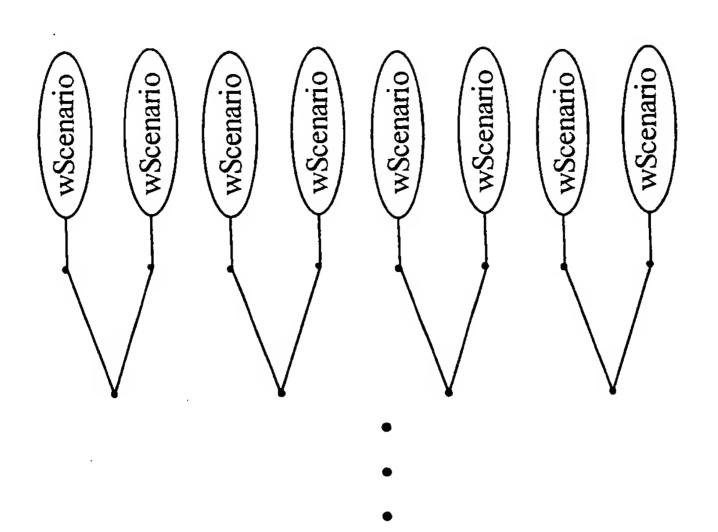


Fig. 4B



^anStage-1 ^anStage ^WnStage-1

44

а3

 \mathbf{w}_{1}

Fig. 5

Fig. 8A

```
class WNode : public...
{
   pGBS;
   pWScenario;
    xAllocRndCntn;
   nodeProbability;
   voa;
   nextWNodeCntn;
};
class WWMatrix : public...
{
   ww[][nStage];
   h;
   voa;
   yoa;
   };
```

Fig. 6

Fig. 8B

```
class WScenario : public...
{
    wwMatrix;
    pWNode[nStage+1];
    nativeProbability;
    nativeXAlloc;
    NativeOptimizer();
};

class AAMatrix : public...
{
    aa[][nStage+1];
    h;
    voa;
};
```

Fig. 7

```
class XAlloc : public...
{
   al[];
   feasible;
   h;
   voa;
   operator=( XAlloc& s);
   operator==(XAlloc& r);
   operator!=(XAlloc& r);
};
```

Fig. 9

Fig. 10

```
DeterministicOptimizer(iFlexStage, aaMatrix, wwMatrix)
{
    Assuming that the allocations in aaMatrix for stages prior to stage iFlexStage are fixed, and that the scenario specified in wwMatrix occurs with certainty:
    {
        Apply prior-art techniques to optimize allocations for stages iFlexStage to nStage.
    }

Transfer allocations for stage iFlexStage to aaMatrix.aa[][iFlexStage]. Transfer allocations for stages beyond iFlexStage to corresponding columns in aaMatrix.aa.
ValueAllocation(aaMatrix, wwMatrix);
}
```

Fig. 11

```
ValueAllocation(aaMatrix, wwMatrix)
{
    Assess wwMatrix together with aaMatrix.
    Determine an assessed value indicative
    of the desirably of having wwMatrix and
    aaMatrix occur together, as opposed to
    any other pair occurring.

Set wwMatrix.voa = assessed value;
    Set aaMatrix.voa = assessed value;
}
```

Fig. 12

```
class ZCluster : public...
    wScenarioCntn;
    xAllocBestCntn;
    xAllocOpt;
    XAllocEvaluator(xAlloc, OKadd);
    ConsiderAppendBestXAlloc(xAllocAdd, xAllocDel);
    Improver();
    SimpleParabolaSearch();
    InnerCompressSearch();
    OuterCompressSearch();
    GenxAlloch(h);
    xAllocHurdle;
    wasImproved;
    xAlloc0;
    xAllocOoff;
    xAlloc1;
    xAlloch;
   xAllocBnd;
  · };
```

Fig. 13A

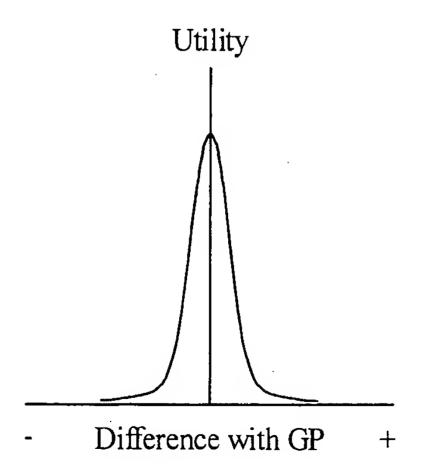


Fig. 13B

